

Amendments to the Claims

Claim Listing, per 37 CFR § 1.121:

1. (currently amended) A motor having a housing having an outer surface, a drive shaft rotatable relative to the housing outer surface about a drive shaft rotational axis, and a brake coupled to the shaft, the brake comprising:

a support affixed to one end of the motor drive shaft, wherein the support rotates generally uniformly about ~~with~~ the drive shaft rotational axis when the drive shaft is rotated;

a first brake shoe ~~hingedly~~-mounted to the support using a hinge having a hinge rotational axis perpendicular to the drive shaft rotational axis, the first brake shoe comprising a first brake shoe brake pad; and

a first spring biasing the first brake pad into frictional engagement against the housing outer surface when rotation of the drive shaft is below a minimum rotational velocity;

~~further~~-wherein the first brake shoe brake pad disengages from the housing outer surface when rotation of the drive shaft exceeds the minimum rotational velocity.

2. (previously presented) The motor of Claim 1 wherein the first brake shoe further comprises:

a first brake shoe bracket having a flyweight and a hinge tab; and

wherein the first brake shoe brake pad is mounted between the flyweight and the hinge tab.

3. (previously presented) The motor of Claim 1 wherein the first brake shoe further comprises:

a first brake shoe bracket having a flyweight and a hinge tab; and

wherein the first brake shoe brake pad is mounted to the flyweight.

4. (currently amended) The motor of Claim 1 wherein the brake further comprises a second brake shoe ~~hingedly~~ mounted to the support, the second brake shoe comprising a second brake shoe brake pad;

wherein the first and second brake shoes are on opposite sides of the support;

further wherein the first spring connects the first brake shoe to the second brake shoe and biases the first and second brake pads into frictional engagement against the housing outer surface when rotation of the drive shaft is below the minimum rotational velocity.

5. (original) The motor of Claim 4 wherein the support comprises a hub and a pair of C brackets on opposite sides of the hub and further wherein a hinge tab of each brake shoe engages one of the C brackets to secure the brake shoe to the hub while permitting limited arcuate displacement of a flyweight on each brake shoe.

6. (currently amended) The motor of Claim 4 wherein the brake further comprises a second spring connecting the first and second brake shoes and biasing the first and second brake pads into frictional engagement against the housing outer surface when rotation of the drive shaft is below the minimum rotational velocity.

7. (original) The motor of Claim 1 further comprising means for mounting the brake to the motor drive shaft.
8. (currently amended) A motor brake comprising:
- a support comprising a mounting hub having a hub rotational axis about which the hub rotates;
 - a first brake shoe ~~hingedly~~-mounted to the support using a first brake shoe hinge having a first brake shoe hinge rotational axis perpendicular to the hub rotational axis, the first brake shoe comprising a first brake shoe frictional brake pad;
 - a second brake shoe ~~hingedly~~-mounted to the support using a second brake shoe hinge having a second brake shoe hinge rotational axis perpendicular to the hub rotational axis, the second brake shoe comprising a second brake shoe frictional brake pad;
 - a first spring connecting the first and second brake shoes, the first spring biasing the first brake shoe brake pad toward the second brake shoe brake pad when rotation of the drive shaft is below a minimum rotational velocity; and
 - a second spring connecting the first and second brake shoes, the second spring biasing the first brake shoe brake pad toward the second brake shoe brake pad when rotation of the drive shaft is below a minimum rotational velocity;
 - ~~further~~ wherein the biasing of the first brake shoe brake pad toward the second brake shoe brake pad is overcome by centrifugal force when rotation of the drive shaft exceeds the minimum rotational velocity.

9. (currently amended) The brake of Claim 8 wherein the first brake shoe comprises:

a hinge tab for ~~hingedly~~ mounting the first brake shoe to the support, and
a flyweight;

wherein the first brake shoe brake pad is mounted between the hinge tab and the
flyweight; and

further wherein the second brake shoe comprises:

a hinge tab for ~~hingedly~~ mounting the second brake shoe to the support, and
a flyweight;

wherein the second brake shoe brake pad is mounted between the hinge tab and
the flyweight.

10. (currently amended) The brake of Claim 8 wherein the first brake shoe comprises:

a hinge tab for ~~hingedly~~ mounting the first brake shoe to the support, and
a flyweight;

wherein the first brake shoe brake pad is mounted to the flyweight; and

further wherein the second brake shoe comprises:

a hinge tab for ~~hingedly~~ mounting the second brake shoe to the support, and
a flyweight;

wherein the second brake shoe brake pad is mounted to the flyweight.

11. (currently amended) A motor brake comprising:

a support having motor drive shaft mounting means having a drive shaft rotational axis;

a first brake shoe ~~hingedly~~-mounted to the support using a first brake shoe hinge having a first brake shoe hinge rotational axis perpendicular to the drive shaft rotational axis, the first brake shoe comprising a first brake shoe frictional brake pad;

a second brake shoe ~~hingedly~~-mounted to the support using a second brake shoe hinge having a second brake shoe hinge rotational axis perpendicular to the drive shaft rotational axis, the second brake shoe comprising a second brake shoe frictional brake pad; and

means for biasing the first brake shoe brake pad toward the second brake shoe brake pad when rotation of the drive shaft is below a minimum rotational velocity;

~~further~~ wherein the biasing of the first brake shoe brake pad toward the second brake shoe brake pad is overcome by centrifugal force when rotation of the drive shaft exceeds the minimum rotational velocity.

12. (original) The brake of Claim 11 wherein the biasing means comprises a spring connecting the first and second brake shoes, the spring biasing the first brake shoe brake pad toward the second brake shoe brake pad when rotation of the drive shaft is below a minimum rotational velocity.

13. (currently amended) The brake of Claim 11 wherein the first brake shoe comprises:

a hinge tab for ~~hingedly~~ mounting the first brake shoe to the support, and
a flyweight;

wherein the first brake shoe brake pad is mounted between the hinge tab and the
flyweight; and

further wherein the second brake shoe comprises:

a hinge tab for ~~hingedly~~ mounting the second brake shoe to the support, and
a flyweight;

wherein the second brake shoe brake pad is mounted between the hinge tab and
the flyweight.

14. (currently amended) The brake of Claim 13 wherein the first brake shoe is
~~hingedly~~ mounted to a first C bracket on the support;

further wherein the second brake shoe is ~~hingedly~~ mounted to a second C bracket
on the support; and

further wherein the first C bracket is on the opposite side of the support from the
second C bracket.

15. (original) The brake of Claim 11 wherein the mounting means comprises at
least one of the following:

a setscrew,

a shaft key,
a spline,
a double-D shaft mounting hole,
a D-shaped shaft mounting hole,
press fitting,
welding,
soldering,
gluing and clamping, or
a locking pin.

16. (currently amended) The brake of Claim 11 wherein the first brake shoe comprises:

a hinge tab for ~~hingedly~~ mounting the first brake shoe to the support, and
a flyweight;
wherein the first brake shoe brake pad is mounted to the flyweight; and

further wherein the second brake shoe comprises:

a hinge tab for ~~hingedly~~ mounting the second brake shoe to the support, and
a flyweight;
wherein the second brake shoe brake pad is mounted to the flyweight.

17. (currently amended) The brake of Claim 16 wherein the first brake shoe is ~~hingedly~~ mounted to a first C bracket on the support;
further wherein the second brake shoe is ~~hingedly~~ mounted to a second C bracket on the support; and
further wherein the first C bracket is on the opposite side of the support from the second C bracket.

18. (canceled)